IN THE SPECIFICATION

Please amend the paragraph at page 3, lines 20-23, of the specification as follows:

(ii) determining two points that are the intersections between the MSP and the volume of the brain shown in the image under examination, denoting the two points as A $(x_A, y_A, 0)$ and $\underline{B}(x_B, y_B, 0)$, both of the two points being on the MSP;

Please amend the paragraph at page 4, lines 9-20, of the specification as follows:

(v) changing the original coordinate system OXYZ to the reformatted co- ordinate system O' X' Y'Z', the unit vectors of the co-ordinates O'X', O'Y' and O'Z' being calculated in the following manner:

O' X' = (a, b, c) =
$$(n_{x1}, n_{y1}, n_{z1})$$

O'Y' = $((x_{\underline{A}}[[A]] - x_{\underline{B}}[[B]]) / [A - B], (y_{\underline{A}}[[A]] - y_{\underline{B}}[[B]]) / [A - B], 0) = (n_{x2}, n_{y2}, n_{z2})$
O'Z' = O'X'xO'Y' = (n_{x3}, n_{y3}, n_{z3})

where [A-B] is the Euclidean distance between points A and B, the transformation between OXYZ and O'X'Y'Z' being defined as follows:

$$\begin{split} X' &= n_{x1} \ X + n_{y1} \ Y + n_{z1} \ Z \\ Y' &= n_{x2} \ X + n_{y2} \ Y + n_{z2} \ Z \\ Z' &= n_{x3} \ X + n_{y3} \ Y + n_{z3} \ Z \\ O' &= 0. \end{split}$$

Please amend the paragraph at page 12, lines 12-17, of the specification as follows:

b) If the original coordinate system OXYZ is changed to O'X'Y'Z', the unit vectors of O'X', O'Y' and O'Z' are calculated in the following manner:

O' X' = (a, b, c) = (
$$n_{x1}$$
, n_{y1} , n_{z1})
O'Y'= (($x_{\underline{A}}[[A]] - x_{\underline{B}}[[B]]$)/ $A - B$, ($y_{\underline{A}}[[A]] - y_{\underline{B}}[[B]]$)/ $A - B$, 0) = (n_{x2} , n_{y2} , n_{z2})

$${\rm O'Z'} = {\rm O'X'xO'Y'} = (n_{x3},\,n_{y3},\,n_{z3})$$

where [A-B] is the Euclidean distance between points A and B.